



Dock t No. 55965 (46342)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: T. Ito, et al.

SERIAL NO: 09/857,815

GROUP: Not Yet Assigned

FILED: June 8, 2001

EXAMINER: Not Yet Assigned

FOR: BETACELLULIN MUTEIN

BOX SEQUENCE
COMMISSIONER FOR PATENTS
WASHINGTON, DC 20231

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CERTIFICATE OF MAILING FOR SUBMISSION
OF CORRECTED SEQUENCE LISTING

SIR:

I hereby certify that this SUBMISSION OF CORRECTED SEQUENCE LISTING IN
RESPONSE TO NOTIFICATION OF DEFECTIVE RESPONSE,
including:

- 1) COPY OF NOTIFICATION OF DEFECTIVE RESPONSE, INCLUDING RAW
SEQUENCE LISTING ERROR REPORT AND MARKED-UP RAW
SEQUENCE LISTING mailed January 23, 2002 (14 pages);
- 2) PAPER COPY OF CORRECTED SEQUENCE LISTING (pages 1/15-15/15);
- 3) COMPUTER READABLE FORM OF CORRECTED SEQUENCE LISTING
(CRF) (1 Disc);
- 4) AMENDMENT DIRECTING ENTRY OF PAPER COPY OF CORRECTED
SEQUENCE LISTING INTO SPECIFICATION (2 pages); and
- 5) STATEMENT IN SUPPORT OF FILING AND SUBMISSIONS IN
ACCORDANCE WITH 37 CFR §§1.821-1.825 (1 page);

for the above-identified Application is being deposited with the United States Postal Service as
first class mail in an envelope addressed to BOX SEQUENCE, Commissioner for Patents,
Washington, DC 20231, on this 25th day of February, 2002.

Fatima H. DeArruda

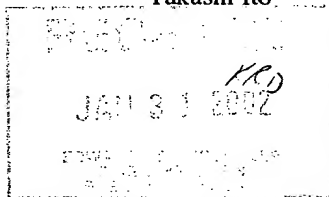


UNITED STATES PATENT AND TRADEMARK OFFICE

 Commissioner for Patents, Ben PCT
 United States Patent and Trademark Office
 Washington, D.C. 20231
 www.uspto.gov

U.S. APPLICATION NUMBER NO.	FIRST NAMED APPLICANT	ATTY. DOCKET NO.
09/857,815	Takashi Ito	46342/55965

David G. Conlin
 Dike Bronstein Roberts & Cushman
 Edwards & Angell
 P.O. Box 9169
 Boston, MA 02209

**COPY**

INTERNATIONAL APPLICATION NO.	
PCT/JP99/06873	
I.A. FILING DATE	PRIORITY DATE
12/08/1999	12/09/1998

CONFIRMATION NO. 9695

371 FORMALITIES LETTER



OC000000007345085

Date Mailed: 01/23/2002

NOTIFICATION OF DEFECTIVE RESPONSE

The following items have been submitted by the applicant or the IB to the United States Patent and Trademark Office as an Elected Office (37 CFR 1.495):

- U.S. Basic National Fee
- Priority Document
- Biochemical Sequence Diskette
- Biochemical Sequence Listing
- Copy of IPE Report
- Copy of references cited in ISR
- Copy of the International Application
- Copy of the International Search Report
- Information Disclosure Statements
- Oath or Declaration
- Request for Immediate Examination

The following items **MUST** be furnished within the period set forth below in order to complete the requirements for acceptance under 35 U.S.C. 371:

- The nucleotide and/or amino acid sequence disclosure contained in this application does not comply with the requirements for such a disclosure as set forth in 37 CFR 1.821-1.825 for the following reason(s):
 - SEE RAW SEQUENCE LISTING ERROR REPORT
 - APPLICANT MUST PROVIDE:
 - An initial or substitute paper copy or compact disc of the "Sequence Listing," as well as an amendment directing its entry into the specification.
 - A statement that the contents of the paper or compact disc and the computer readable form are the same and, where applicable, include no new matter, as required by 37 CFR 1.821(e), 1.821(f), 1.821(g), 1.825(b) or 1.825(d).
- For questions regarding compliance to 37 CFR 1.821-1.825 requirements, please contact:
 - For Rules Interpretation, call (703) 308-4216
 - To Purchase PatentIn Software, call (703) 306-2600

Sequence Listing
 Edwards & Angell LLP
 Dike, Bronstein, Roberts & Cushman
 101 Federal St. Boston, MA 02110
 Date Rec'd 1/31/02
 Docketed For Feb. 11 - Feb. 25, 2002
 By KRD
 Approved [Signature]

- For PatentIn Software Program Help, call (703) 306-4119 or e-mail at patin21help@uspto.gov or patin3help@uspto.gov

Applicant is required to complete the response within a time limit of ONE MONTH from the date of this Notification or within the time remaining in the response set forth in the Notification of Missing Requirements, whichever is the longer. No extension of this time limit may be granted under 37 CFR 1.136, but the period for response set in the Notification of Missing Requirements may be extended up to a maximum of six months.

Applicant is reminded that any communications to the United States Patent and Trademark Office must be mailed to the address given in the heading and include the U.S. application no. shown above (37 CFR 1.5)

*A copy of this notice **MUST** be returned with the response.*

BARBARA A CAMPBELL

Telephone: (703) 305-3631

PART 1 - ATTORNEY/APPLICANT COPY

U.S. APPLICATION NUMBER NO.	INTERNATIONAL APPLICATION NO.	ATTY. DOCKET NO.
09/857,815	PCT/JP99/06873	46342/55965



COPY

Raw Sequence Listing Error Summary

ERROR DETECTED

SUGGESTED CORRECTION

SERIAL NUMBER: 09/857815

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY:

1 _____ Wrapped Nucleics
_____ Wrapped Aminos

The number/text at the end of each line "wrapped" down to the next line. This may occur if you was retrieved in a word processor after creating it. Please adjust your right margin to 3; this will prevent "wrapping."

2 _____ Invalid Line Length

The rules require that a line not exceed 72 characters in length. This includes white spaces.

3 _____ Misaligned Amino
_____ Numbering

The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.

4 _____ Non-ASCII

The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.

5 _____ Variable Length.

Sequence(s) _____ contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.

6 _____ PatentIn 2.0
_____ "bug"

A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.

7 _____ Skipped Sequences
(OLD RULES)

Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence:
(2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
(i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
(ii) SEQUENCE DESCRIPTION: SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
This sequence is intentionally skipped.

Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequence.

8 _____ Skipped Sequences
(NEW RULES)

Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence:
<210> sequence id number
<400> sequence id number
000

9 _____ Use of n's or Xaa's
(NEW RULES)

Use of n's and/or Xaa's have been detected in the Sequence Listing.
Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

10 _____ Invalid <213>
_____ Response

Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or Artificial Sequence.

11 ☒ Use of <220>

Sequence(s) _____ missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.
(See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)

12 _____ PatentIn 2.0
_____ "bug"

Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.

13 _____ Misuse of n

n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.

AMC/MH - Biotechnology Systems Branch - 08/21/2001

The type of errors shown exist throughout the Sequence Listing. Please check subsequent sequences for similar errors.



COPY

PCT09

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/857,815

DATE: 10/29/2001
TIME: 13:12:54

Input Set : A:\09-857,815-sequence listing.txt
Output Set: N:\CRF3\10292001\I857815.raw

2 <110> APPLICANT: Takeda Chemical Industries, Ltd.
W--> 3 <120> TITLE OF INVENTION: Betacellulin Mutein
W--> 4 <130> FILE REFERENCE: 2576WO0P
C--> 5 <140> CURRENT APPLICATION NUMBER: US/09/857,815
C--> 5 <141> CURRENT FILING DATE: 2001-06-08
5 <150> PRIOR APPLICATION NUMBER: JP 10-350377
6 <151> PRIOR FILING DATE: 1998-12-09
7 <150> PRIOR APPLICATION NUMBER: JP 11-55326
8 <151> PRIOR FILING DATE: 1999-03-03
W--> 9 <160> NUMBER OF SEQ ID: 56
W--> 10 <210> SEQ ID NO: 1
11 <211> LENGTH: 77
12 <212> TYPE: PRT
13 <213> ORGANISM: Artificial Sequence
W--> 14 <220> FEATURE:
W--> 14 <223> OTHER INFORMATION:
W--> 14 <400> SEQUENCE: 1
15 Asp Gly Asn Ser Thr Arg Ser Pro Glu Thr Asn Gly Leu Leu Cys Gly
16 1 5 10 15
17 Asp Pro Glu Glu Asn Cys Ala Ala Thr Thr Gln Ser Lys Arg Lys
18 20 25 30
19 Gly His Phe Ser Arg Cys Pro Lys Gln Tyr Lys His Tyr Cys Ile Lys
20 35 40 45
21 Gly Arg Cys Arg Phe Val Val Ala Glu Gln Thr Pro Ser Cys Val Cys
22 50 55 60
23 Asp Glu Gly Tyr Ile Gly Ala Arg Cys Glu Arg Val Asp
24 65 70 75
25 <210> SEQ ID NO: 2
26 <211> LENGTH: 76
27 <212> TYPE: PRT
28 <213> ORGANISM: Artificial Sequence
W--> 29 <220> FEATURE:
W--> 29 <223> OTHER INFORMATION:
W--> 29 <400> SEQUENCE: 2
30 Asp Gly Asn Ser Thr Arg Ser Pro Glu Thr Asn Gly Leu Leu Cys Gly
31 1 5 10 15
32 Asp Pro Glu Glu Asn Cys Ala Ala Thr Thr Gln Ser Lys Arg Lys
33 20 25 30
34 Gly His Phe Ser Arg Cys Pro Lys Gln Tyr Lys His Tyr Cys Ile Lys
35 35 40 45
36 Gly Arg Cys Arg Phe Val Val Ala Glu Gln Thr Pro Ser Cys Val Cys
37 50 55 60
38 Asp Glu Gly Tyr Ile Gly Ala Arg Cys Glu Arg Val
39 65 70 75
40 <210> SEQ ID NO: 3
41 <211> LENGTH: 47
42 <212> TYPE: PRT

Does Not Comply
Corrected Diskette Needed

Errored

Errored



COPY

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/857,815

DATE: 10/29/2001

TIME: 13:12:54

Input Set : A:\09-857,815-sequence listing.txt

Output Set: N:\CRF3\10292001\I857815.raw

43 <213> ORGANISM: Artificial Sequence
W--> 44 <220> FEATURE: 30
W--> 44 <223> OTHER INFORMATION:
W--> 44 <400> SEQUENCE: 3
45 Arg Lys Gly His Phe Ser Arg Cys Pro Lys Gln Tyr Lys His Tyr Cys
46 1 60 5 10 15
47 Ile Lys Gly Arg Cys Arg Phe Val Val Ala Glu Gln Thr Pro Ser Cys
48 75 20 25 30
49 Val Cys Asp Glu Gly Tyr Ile Gly Ala Arg Cys Glu Arg Val Asp
50 35 40 45
51 <210> SEQ ID NO: 4
52 <211> LENGTH: 46
53 <212> TYPE: PRT
54 <213> ORGANISM: Artificial Sequence
W--> 55 <220> FEATURE:
W--> 55 <223> OTHER INFORMATION:
W--> 55 <400> SEQUENCE: 4
56 Arg Lys Gly His Phe Ser Arg Cys Pro Lys Gln Tyr Lys His Tyr Cys
57 1 5 10 15
58 Ile Lys Gly Arg Cys Arg Phe Val Val Ala Glu Gln Thr Pro Ser Cys
59 20 25 30
60 Val Cys Asp Glu Gly Tyr Ile Gly Ala Arg Cys Glu Arg Val
61 35 40 45
62 <210> SEQ ID NO: 5
63 <211> LENGTH: 79
64 <212> TYPE: PRT
65 <213> ORGANISM: Artificial Sequence
W--> 66 <220> FEATURE:
W--> 66 <223> OTHER INFORMATION:
W--> 66 <400> SEQUENCE: 5
67 Asp Gly Asn Ser Thr Arg Ser Pro Glu Thr Asn Gly Leu Leu Cys Gly
68 1 5 10 15
69 Asp Pro Glu Glu Asn Cys Ala Ala Thr Thr Thr Gln Ser Lys Arg Lys
70 20 25 30
71 Gly His Phe Ser Arg Cys Pro Lys Gln Tyr Lys His Tyr Cys Ile Lys
72 35 40 45
73 Gly Arg Cys Arg Phe Val Val Ala Glu Gln Thr Pro Ser Cys Val Cys
74 50 55 60
75 Asp Glu Gly Tyr Ile Gly Ala Arg Cys Glu Arg Val Leu Phe Tyr
76 65 70 75
77 <210> SEQ ID NO: 6
78 <211> LENGTH: 78
79 <212> TYPE: PRT
80 <213> ORGANISM: Artificial Sequence
W--> 81 <220> FEATURE:
W--> 81 <223> OTHER INFORMATION:
W--> 81 <400> SEQUENCE: 6
82 Asp Gly Asn Ser Thr Arg Ser Pro Glu Thr Asn Gly Leu Leu Cys Gly
83 1 5 10 15

The type of errors shown exist throughout the Sequence Listing. Please check subsequent sequences for similar errors.

The type of errors shown exist throughout the Sequence Listing. Please check subsequent sequences for similar errors.

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/857,815

DATE: 10/29/2001

TIME: 13:12:54

Input Set : A:\09-857,815-sequence listing.txt

Output Set: N:\CRF3\10292001\I857815.raw

```

84 Asp Pro Glu Glu Asn Cys Ala Ala Thr Thr Thr Gln Ser Lys Arg Lys
85 10 20 30 25 30
86 Gly His Phe Ser Arg Cys Pro Lys Gln Tyr Lys His Tyr Cys Ile Lys
87 35 40 45
88 Gly Arg Cys Arg Phe Val Val Ala Glu Gln Thr Pro Ser Cys Val Cys
89 50 45 55 60
90 Asp Glu Gly Tyr Ile Gly Ala Arg Cys Glu Arg Val Leu Phe
91 65 70 75
92 <210> SEQ ID NO: 7
93 <211> LENGTH: 77
94 <212> TYPE: PRT
95 <213> ORGANISM: Artificial Sequence
W--> 96 <220> FEATURE:
W--> 96 <223> OTHER INFORMATION:
W--> 96 <400> SEQUENCE: 7
97 Asp Gly Asn Ser Thr Arg Ser Pro Glu Thr Asn Gly Leu Leu Cys Gly
98 1 5 10 15
99 Asp Pro Glu Glu Asn Cys Ala Ala Thr Thr Thr Gln Ser Lys Arg Lys
100 20 25 30
101 Gly His Phe Ser Arg Cys Pro Lys Gln Tyr Lys His Tyr Cys Ile Lys
102 35 40 45
103 Gly Arg Cys Arg Phe Val Val Ala Glu Gln Thr Pro Ser Cys Val Cys
104 50 55 60
105 Asp Glu Gly Tyr Ile Gly Ala Arg Cys Glu Arg Val Leu
106 65 70 75
107 <210> SEQ ID NO: 8
108 <211> LENGTH: 79
109 <212> TYPE: PRT
110 <213> ORGANISM: Artificial Sequence
W--> 111 <220> FEATURE:
W--> 111 <223> OTHER INFORMATION:
W--> 111 <400> SEQUENCE: 8
112 Asp Gly Asn Ser Thr Arg Ser Pro Glu Thr Asn Gly Leu Leu Cys Gly
113 1 5 10 15
114 Asp Pro Glu Glu Asn Cys Ala Ala Thr Thr Thr Gln Ser Lys Arg Lys
115 20 25 30
116 Gly His Phe Ser Arg Cys Pro Lys Gln Tyr Lys His Tyr Cys Ile Lys
117 35 40 45
118 Gly Arg Cys Arg Phe Val Val Ala Glu Gln Thr Pro Ser Cys Val Cys
119 50 55 60
120 Asp Glu Gly Tyr Ile Gly Ala Arg Cys Glu Arg Val Asp Phe Tyr
121 65 70 75
122 <210> SEQ ID NO: 9
123 <211> LENGTH: 78
124 <212> TYPE: PRT
125 <213> ORGANISM: Artificial Sequence
W--> 126 <220> FEATURE:
W--> 126 <223> OTHER INFORMATION:
W--> 126 <400> SEQUENCE: 9

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The type of errors shown exist throughout
the Sequence Listing. Please check subsequent
sequences for similar errors.

RAW SEQUENCE LISTING

DATE: 10/29/2001

PATENT APPLICATION: US/09/857,815

TIME: 13:12:54

Input Set : A:\09-857,815-sequence listing.txt

Output Set: N:\CRF3\10292001\I857815.raw

```

127 Asp Gly Asn Ser Thr Arg Ser Pro Glu Thr Asn Gly Leu Leu Cys Gly
128 1 5 10 15
129 Asp Pro Glu Glu Asn Cys Ala Ala Thr Thr Thr Gln Ser Lys Arg Lys
130 20 25 30
131 Gly His Phe Ser Arg Cys Pro Lys Gln Tyr Lys His Tyr Cys Ile Lys
132 35 40 45
133 Gly Arg Cys Arg Phe Val Val Ala Glu Gln Thr Pro Ser Cys Val Cys
134 50 55 60
135 Asp Glu Gly Tyr Ile Gly Ala Arg Cys Glu Arg Val Asp Phe
136 65 70 75
137 <210> SEQ ID NO: 10
138 <211> LENGTH: 49
139 <212> TYPE: PRT
140 <213> ORGANISM: Artificial Sequence
W--> 141 <220> FEATURE:
W--> 141 <223> OTHER INFORMATION:
W--> 141 <400> SEQUENCE: 10
142 Arg Lys Gly His Phe Ser Arg Cys Pro Lys Gln Tyr Lys His Tyr Cys
143 1 5 10 15
144 Ile Lys Gly Arg Cys Arg Phe Val Val Ala Glu Gln Thr Pro Ser Cys
145 20 25 30
146 Val Cys Asp Glu Gly Tyr Ile Gly Ala Arg Cys Glu Arg Val Leu Phe
147 35 40 45
148 Tyr
149 <210> SEQ ID NO: 11
150 <211> LENGTH: 48
151 <212> TYPE: PRT
152 <213> ORGANISM: Artificial Sequence
W--> 153 <220> FEATURE:
W--> 153 <223> OTHER INFORMATION:
W--> 153 <400> SEQUENCE: 11
154 Arg Lys Gly His Phe Ser Arg Cys Pro Lys Gln Tyr Lys His Tyr Cys
155 1 5 10 15
156 Ile Lys Gly Arg Cys Arg Phe Val Val Ala Glu Gln Thr Pro Ser Cys
157 20 25 30
158 Val Cys Asp Glu Gly Tyr Ile Gly Ala Arg Cys Glu Arg Val Leu Phe
159 35 40 45
160 <210> SEQ ID NO: 12
161 <211> LENGTH: 47
162 <212> TYPE: PRT
163 <213> ORGANISM: Artificial Sequence
W--> 164 <220> FEATURE:
W--> 164 <223> OTHER INFORMATION:
W--> 164 <400> SEQUENCE: 12
165 Arg Lys Gly His Phe Ser Arg Cys Pro Lys Gln Tyr Lys His Tyr Cys
166 1 5 10 15
167 Ile Lys Gly Arg Cys Arg Phe Val Val Ala Glu Gln Thr Pro Ser Cys
168 20 25 30
169 Val Cys Asp Glu Gly Tyr Ile Gly Ala Arg Cys Glu Arg Val Leu

```


DATE: 10/29/2001

TIME: 13:12:54

Output Set: N:\CRF3\10292001\I857815.raw

10/29/01

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/857,815

DATE: 10/29/2001

TIME: 13:12:55

Input Set : A:\09-857,815-sequence listing.txt

Output Set: N:\CRF3\10292001\I857815.raw

L:3 M:283 W: Missing Blank Line separator, <120> field identifier
L:4 M:283 W: Missing Blank Line separator, <130> field identifier
L:5 M:270 C: Current Application Number differs, Replaced Current Application No
L:5 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:9 M:283 W: Missing Blank Line separator, <160> field identifier
L:10 M:283 W: Missing Blank Line separator, <210> field identifier
L:14 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:14 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:14 M:283 W: Missing Blank Line separator, <400> field identifier
L:29 M:258 W: Mandatory Feature missing, <220> FEATURE:
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L:44 M:283 W: Missing Blank Line separator, <400> field identifier
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L:55 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
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L:175 M:258 W: Mandatory Feature missing, <220> FEATURE:
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L:187 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:187 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:187 M:283 W: Missing Blank Line separator, <400> field identifier

COPY

VERIFICATION SUMMARY

DATE: 10/29/2001

PATENT APPLICATION: US/09/857,815

TIME: 13:12:55

Input Set : A:\09-857,815-sequence listing.txt

Output Set: N:\CRF3\10292001\I857815.raw

L:198 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:198 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:198 M:283 W: Missing Blank Line separator, <400> field identifier
L:199 M:112 C: (48) String data converted to lower case,
M:112 Repeated in SeqNo=15
L:207 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:207 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:207 M:283 W: Missing Blank Line separator, <400> field identifier
L:208 M:112 C: (48) String data converted to lower case,
M:112 Repeated in SeqNo=16
L:216 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:216 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:216 M:283 W: Missing Blank Line separator, <400> field identifier
L:217 M:112 C: (48) String data converted to lower case,
M:112 Repeated in SeqNo=17
L:224 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:224 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:224 M:283 W: Missing Blank Line separator, <400> field identifier
L:225 M:112 C: (48) String data converted to lower case,
M:112 Repeated in SeqNo=18
L:232 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:232 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:232 M:283 W: Missing Blank Line separator, <400> field identifier
L:233 M:112 C: (48) String data converted to lower case,
M:112 Repeated in SeqNo=19
L:241 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:241 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:241 M:283 W: Missing Blank Line separator, <400> field identifier
L:242 M:112 C: (48) String data converted to lower case,
M:112 Repeated in SeqNo=20
L:250 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:250 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:250 M:283 W: Missing Blank Line separator, <400> field identifier
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M:112 Repeated in SeqNo=21
L:259 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:259 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:259 M:283 W: Missing Blank Line separator, <400> field identifier
L:260 M:112 C: (48) String data converted to lower case,
M:112 Repeated in SeqNo=22
L:268 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:268 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:268 M:283 W: Missing Blank Line separator, <400> field identifier
L:269 M:112 C: (48) String data converted to lower case,
M:112 Repeated in SeqNo=23
L:277 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:277 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:277 M:283 W: Missing Blank Line separator, <400> field identifier
L:278 M:112 C: (48) String data converted to lower case,

COPY

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/857,815

DATE: 10/29/2001

TIME: 13:12:55

Input Set : A:\09-857,815-sequence listing.txt

Output Set: N:\CRF3\10292001\I857815.raw

M:112 Repeated in SeqNo=24
L:285 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:285 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:285 M:283 W: Missing Blank Line separator, <400> field identifier
L:286 M:112 C: (48) String data converted to lower case,
M:112 Repeated in SeqNo=25
L:293 M:283 W: Missing Blank Line separator, <400> field identifier
L:294 M:112 C: (48) String data converted to lower case,
M:112 Repeated in SeqNo=26
L:301 M:283 W: Missing Blank Line separator, <400> field identifier
L:302 M:112 C: (48) String data converted to lower case,
M:112 Repeated in SeqNo=27
L:309 M:283 W: Missing Blank Line separator, <400> field identifier
L:310 M:112 C: (48) String data converted to lower case,
M:112 Repeated in SeqNo=28
L:317 M:283 W: Missing Blank Line separator, <400> field identifier
L:318 M:112 C: (48) String data converted to lower case,
L:323 M:283 W: Missing Blank Line separator, <400> field identifier
L:324 M:112 C: (48) String data converted to lower case,
L:329 M:283 W: Missing Blank Line separator, <400> field identifier
L:330 M:112 C: (48) String data converted to lower case,
L:335 M:283 W: Missing Blank Line separator, <400> field identifier
L:336 M:112 C: (48) String data converted to lower case,
L:341 M:283 W: Missing Blank Line separator, <400> field identifier
L:342 M:112 C: (48) String data converted to lower case,
L:347 M:283 W: Missing Blank Line separator, <400> field identifier
L:348 M:112 C: (48) String data converted to lower case,
L:353 M:283 W: Missing Blank Line separator, <400> field identifier
L:368 M:283 W: Missing Blank Line separator, <400> field identifier
L:369 M:112 C: (48) String data converted to lower case,
M:112 Repeated in SeqNo=36
L:376 M:282 W: Numeric Field Identifier Missing, <212> is required.
L:376 M:283 W: Missing Blank Line separator, <400> field identifier
L:390 M:282 W: Numeric Field Identifier Missing, <212> is required.
L:390 M:283 W: Missing Blank Line separator, <400> field identifier
L:403 M:283 W: Missing Blank Line separator, <400> field identifier
L:404 M:112 C: (48) String data converted to lower case,
L:409 M:283 W: Missing Blank Line separator, <400> field identifier
L:410 M:112 C: (48) String data converted to lower case,
L:415 M:283 W: Missing Blank Line separator, <400> field identifier
L:416 M:112 C: (48) String data converted to lower case,
L:421 M:283 W: Missing Blank Line separator, <400> field identifier
L:422 M:112 C: (48) String data converted to lower case,
M:112 Repeated in SeqNo=42
L:430 M:283 W: Missing Blank Line separator, <400> field identifier
L:431 M:112 C: (48) String data converted to lower case,
M:112 Repeated in SeqNo=43
L:438 M:283 W: Missing Blank Line separator, <400> field identifier
L:451 M:283 W: Missing Blank Line separator, <400> field identifier

COPY

VERIFICATION SUMMARY

DATE: 10/29/2001

PATENT APPLICATION: US/09/857,815

TIME: 13:12:55

Input Set : A:\09-857,815-sequence listing.txt

Output Set: N:\CRF3\10292001\I857815.raw

L:462 M:283 W: Missing Blank Line separator, <400> field identifier
L:479 M:112 C: (48) String data converted to lower case,
M:112 Repeated in SeqNo=47
L:489 M:112 C: (48) String data converted to lower case,
M:112 Repeated in SeqNo=48
L:497 M:112 C: (48) String data converted to lower case,
M:112 Repeated in SeqNo=49
L:505 M:112 C: (48) String data converted to lower case,



Docket No. 55965 (46342)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application: T. Ito, et al.

Serial No.: 09/857,815

Filed: June 8, 2001

For: BETACELLULIN MUTEIN

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COMMISSIONER FOR PATENTS
WASHINGTON, DC 20231

Sir:

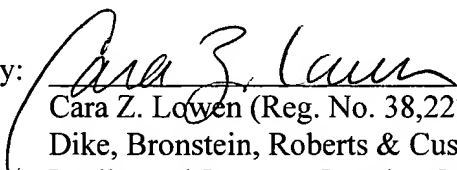
**Statements In Support Of Filing And Submissions
In Accordance With 37 CFR §§ 1.821-1.825**

In accordance with 37 CFR §§1.821-1.825, I hereby state that the content of the paper copy of the corrected sequence listing (pages 1/15-15/15) and computer-readable copies of the corrected sequence listing (CRF) submitted in accordance with 37 CFR §§1.821(c) and (e), respectively, are the same. I hereby state that the submission, filed in accordance with 37 CFR §1.821(g) does not introduce new matter.

Respectfully submitted,

Date: February 25, 2002

By:


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